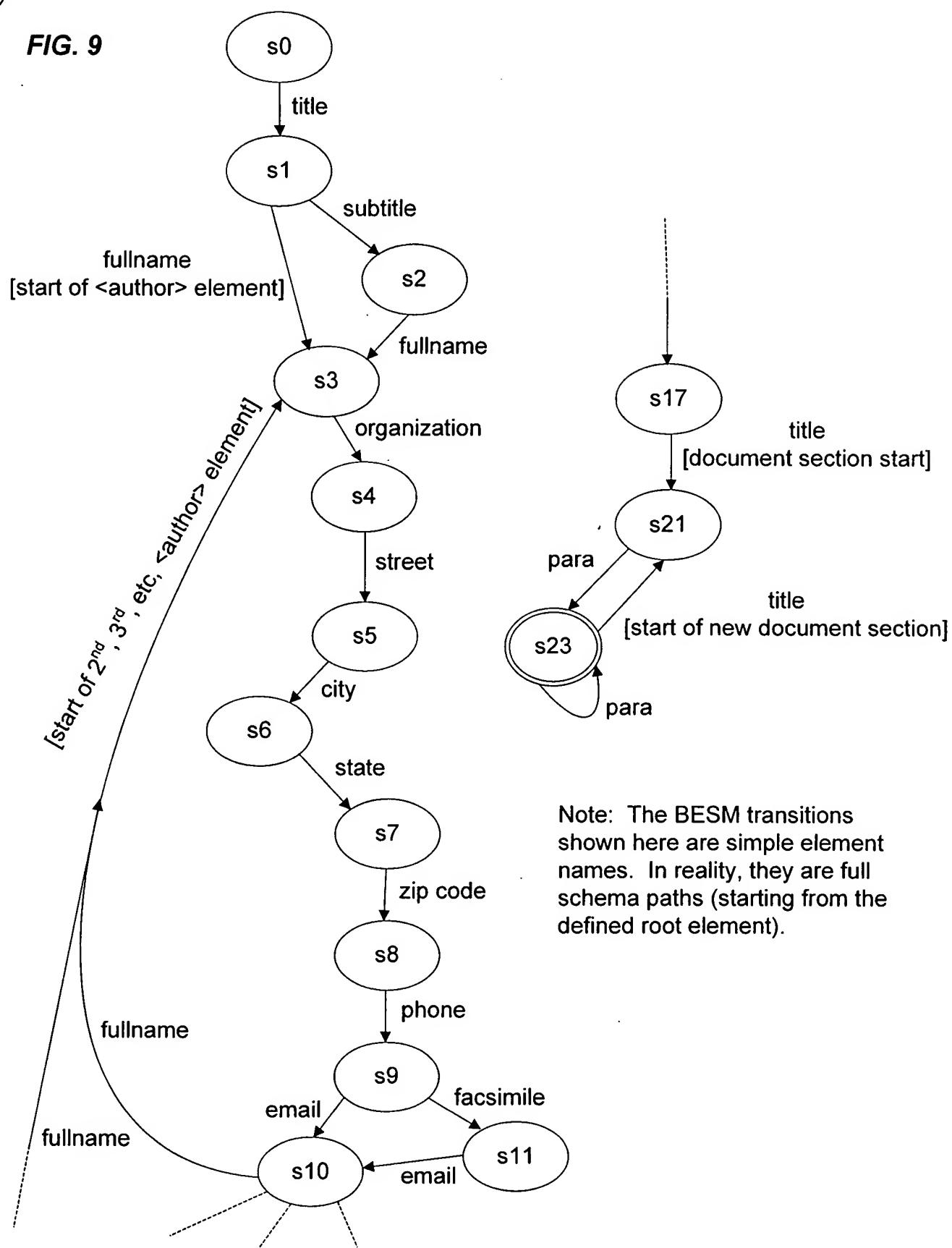




REPLACEMENT SHEET

FIG. 9



REPLACEMENT SHEET

Marked Up: <u>/book/bookinfo/bookbiblio/authorgroup/author/address/address/email</u>
Conversion State: [document position]; cumulative rating: 20 Expected elements: <u>uri</u> , <u>para</u> , <u>fullname</u> , <u>pubdate</u> , <u>para</u> >> Matched Elements: <u>uri</u>
Marked Up: <u>/book/bookinfo/bookbiblio/authorgroup/author/adress/uri</u>
Conversion State: [document position]; cumulative rating: 14 Expected elements: <u>para</u> , <u>fullname</u> , <u>pubdate</u> , <u>para</u> >> Matched Elements: (None)
Skipped to Next Paragraph
Conversion State: [document position]; cumulative rating: 14 Expected elements: <u>para</u> , <u>fullname</u> , <u>pubdate</u> , <u>para</u> >> Matched Elements: <u>fullname</u>
Marked Up: <u>/book/bookinfo/bookbiblio/authorgroup/author[2]/fullname</u>
Conversion State: [document position]; cumulative rating: 9 Expected elements: <u>organization</u> >> Matched Elements: <u>organization</u>
Marked Up: <u>/book/bookinfo/bookbiblio/authorgroup/author[2]/organization</u>
⋮
Marked Up: <u>/content/document/section[6]/reference[23]/titlegroup/title</u>
Conversion State: [document position]; cumulative rating: 453 Expected elements: <u>volume</u> , <u>title</u> >> Matched Elements: <u>volume</u>
Marked Up: <u>/content/document/section[6]/reference[23]/volume</u>
Conversion State: [document position]; cumulative rating: 452 Expected elements: <u>page</u> >> Matched Elements: <u>page</u>
Marked Up: <u>/content/document/section[6]/reference[23]/page</u>
Conversion State: [document position]; cumulative rating: 453 Expected elements: <u>number</u> , <u>name</u> , <u>heading</u> >> Matched Elements: (None)
Skipped Element: <u>content/document/section/heading</u>
Conversion State: [document position]; cumulative rating: 442 Expected elements: <u>number</u> , <u>name</u> , <u>p</u> , <u>heading</u> >> Matched Elements: <u>p</u>
Marked Up: <u>/content/document/section[6]/p</u>
Conversion State: [document position]; cumulative rating 437 Expected elements: <u>p</u> , <u>heading</u> , <u>heading</u> >> Matched Elements: <u>p</u>

FIG. 14: Conversion/markup Report samples

REPLACEMENT SHEET

FIG. 16

Article.doc

File Edit View Insert Format Tools Table Window Help

Convert Document View Conversion Report WorX Studio Setup

Schema Brower

Header/Namegroup/name

externallink
file
all externallink
forenames
a-b header
a-b documentinfo
a-b titlegroup
a-b namegroup
a-b name (+)
a-b summary

Element Conversion Definition

Fractional Paragraph
Leading Pattern
Text Pattern
Trailing Pattern
Text Formatting
Style Name

Structures of two cell wall-associated polysaccharides of a **Streptococcus mitis** biovar 1 strain

A unique teichoic acid-like polysaccharide and the group O antigen which is a C-polysaccharide in common with pneumococci. Niklas Bergström¹, Per-Erik Jansson¹, Mogens Killian² and Uffe B. Skov Sørensen²
<http://schemas.microsoft.com/office/word/2003/wordml/0131ClinicalResearchCentre,AnalyticalUnit,KarolinskaInstitute,UniversityofAarhus,HuddingeHospital,Norrmalm,Huddinge,Sweden> 2Department, Medical Microbiology and Immunology, University of Aarhus, Denmark

The cell wall of *Streptococcus mitis* biovar 1 strain SK137 contains the C-polysaccharide known as the common antigen of a closely related species *Streptococcus pneumoniae*, and a teichoic acid-like polysaccharide with a unique structure. The two polysaccharides are different entities and should be partially separated by gel chromatography. The structures of the two polysaccharides were determined by chemical methods and by NMR spectroscopy. The teichoic acid-like polymer has a heptasaccharide phosphate repeating unit with the following structure:

The structure neither contains ribitol nor glycerol phosphate as classical teichoic acids do, thus we have used the expression teichoic acid-like for this polysaccharide. The following structure of the C-polysaccharide repeating unit was established.

where AAT is 2-acetamide-4-amino-2,4,6-trideoxy-D-galactose. It has a carbohydrate backbone identical to that of one of the two structures of C-polysaccharide previously identified in *S. pneumoniae*. C-polysaccharide of *S. mitis* is characterized by the presence, in each repeating unit, of two residues of phosphocholine and both galactosamine residues in the N-acetylated form. Immunochemical analysis showed that C-polysaccharide constitutes the Lancefield group O antigen. Studies using mAbs directed against the backbone and against the phosphocholine moiety of the C-polysaccharide revealed several different patterns of these epitopes among 95 *S. mitis* and *Streptococcus oralis* strains tested and the exclusive presence of the group O antigen in the majority of *S. mitis* biovar 1 strains. Keywords:

Conversion Definition Properties

Conversion Definition Properties

Misc
midparaStart allowed
Priority 5

Page 1 Sec 1 1/10 4/5.4" Ln 26 Col 27